

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number  
**WO 2005/080845 A1**

(51) International Patent Classification<sup>7</sup>: **F16L 1/024**,  
1/12, 3/00

Monsignor Giovanni Bianchi, 32, I-20078 San Colombano  
Al Lambro (IT).

(21) International Application Number:  
PCT/EP2005/001222

(74) Agents: **DE GREGORI, Antonella et al.**; **Ing. Barzano'**  
& Zanardo Milano S.p.A., Via Borgonuovo, 10, I-20121  
Milan (IT).

(22) International Filing Date: 4 February 2005 (04.02.2005)

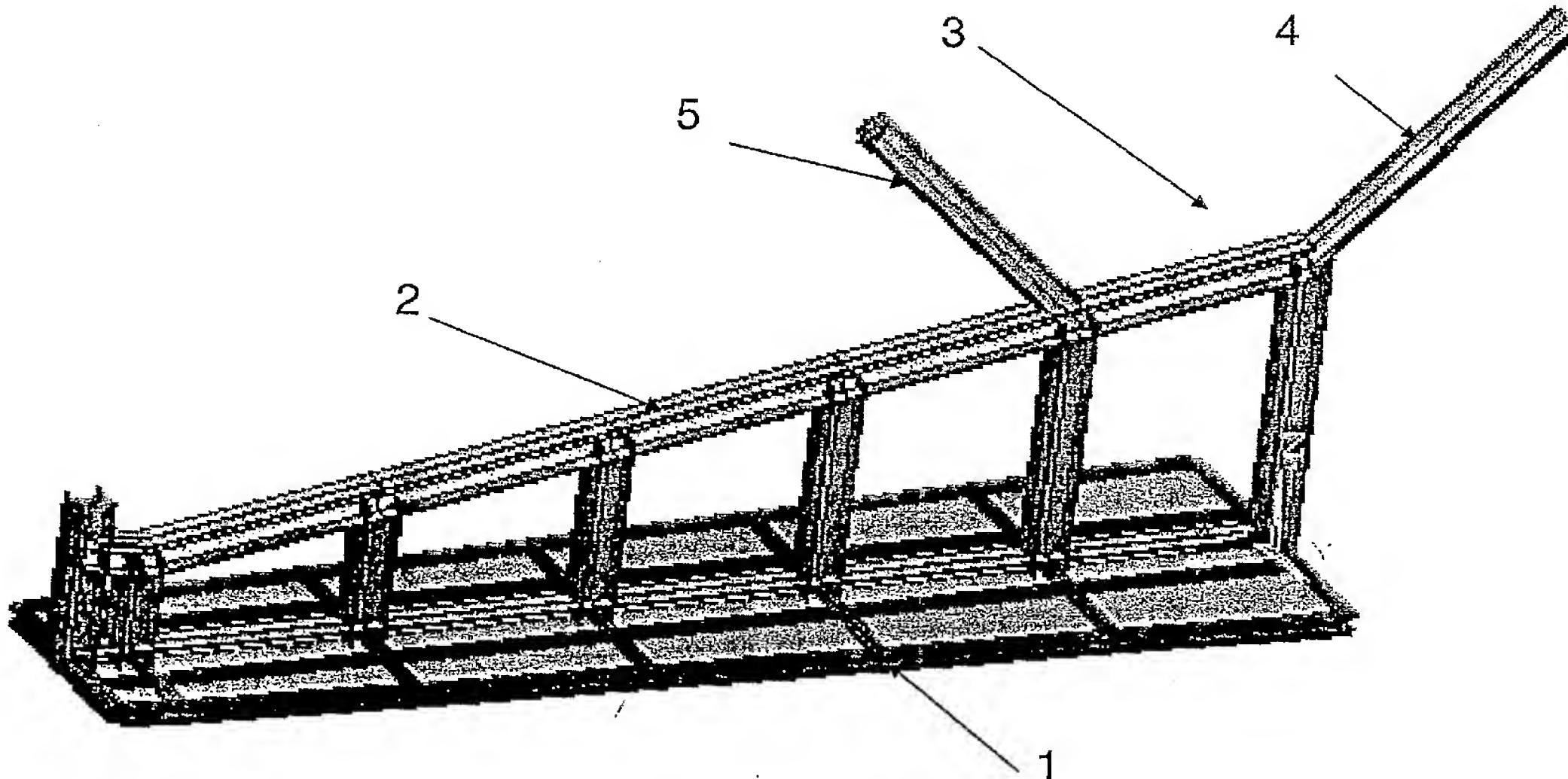
(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
MI2004A000300 23 February 2004 (23.02.2004) IT

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

*[Continued on next page]*

(54) Title: METHOD FOR TRIGGERING AND CONTROLLING THE LATERAL BUCKLING IN UNDERWATER PIPELINES



WO 2005/080845 A1

(57) Abstract: Method for triggering and controlling the lateral buckling in underwater pipelines by the installation of supporting systems, positioned in certain points of the seabed, characterized in that the upper surfaces of said supports, on which the pipelines rest, are tilted with respect to the horizontal plane, transversally with respect to the direction of said pipelines.



**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*